APPENDIX D

Parking Study

The Borregas Avenue Bicycle Bridges project will require the removal of some on-street parking on Persian Drive, Weddell Drive and Ahwanee Avenue. This parking study was conducted to determine the existing demand for the on-street parking and to identify whether there is adequate parking supply in the vicinity to accommodate the existing demand after the parking is removed.

Methodology

The parking study measured weekday and weekend parking volumes for morning (between 7am and 9am), mid day (between 1pm and 3pm) and evening (after 6pm). The supply and demand for both on-street parking spaces and off-street parking spaces were counted. For each section of on-street parking that is proposed to be eliminated, peak parking demand was identified. The study then determined whether there was adequate off-street parking available on the properties adjacent to the parking removal. The City's zoning code requires that all land uses provide adequate parking on-site. Street parking may not be counted towards parking for a particular site. The nature of the on-street parking demand in the area is virtually exclusively to serve adjacent land uses, as there are no major parking generators or parking capacity issues in the greater neighborhood are of the project. If this was not the case, then a broader study was conducted to identify any potential issues that may arise from the overflow parking and determine possible measures to minimize any problems.

Persian Drive

Parking is proposed to be eliminated on Persian Drive from Plaza Drive to Borregas Avenue. There are a total of six (6) on-street parking spaces that will be eliminated adjacent to 102 Persian Drive. The peak demand for this section is four (4) parking spaces during the weekday after 6pm. During this time, as shown in Table 1, there are 11 parking spaces available in the parking lot for 102 Persian Drive. There are also many parking spaces available in the parking lot for the retail site directly next to 102 Persian Drive.

Table 1 - Persian Drive

Total # of On-	Peak On-Street	Off-Street Supply
Street Parking	Parking Demand	free during Peak
Spaces	(weekday after 6pm)	Demand
6	4	11

Based on this data, it is not anticipated that any issues will arise due to the elimination of 6 parking spaces on Persian Drive. The available off-street supply will meet the on-street demand.

Weddell Drive

Parking is proposed to be eliminated on Weddell Drive from approximately 150 feet west of Borregas Ave to approximately 150 feet east of Weddell Court. This is adjacent to the following properties: 101 W. Weddell Drive, 211 W. Weddell Drive, 907 Weddell Court, and 904 Weddell Court. A total of 16 spaces are proposed to be eliminated.

West of Borregas Avenue – A total of four (4) spaces are proposed to be removed. The peak demand for this section is four (4) parking spaces during the weekend morning. Peak demand for the off-street parking lot of 101 W. Weddell Drive was during the weekend after 6pm. During this time there were 15 unused parking spaces. To be conservative, that number was used instead of the peak demand for the weekend morning, 22 unused parking spaces.

Table 2 - Weddell Drive West of Borregas

	4	4	15
	Street Parking Spaces	Parking Demand (weekend AM)	free during Peak Demand
-	Total # of On-	Peak On-Street	Off-Street Supply

East of Borregas Avenue — A total of 12 spaces are proposed to be removed east of Borregas Avenue. The peak demand for this section is four (4) parking spaces during the weekday afternoon. During this time, as shown in Table 3, there are 19 off-street spaces available for the businesses adjacent to the parking removal.

Table 3 - Weddell Drive East of Borregas

Total # of On-	Peak On-Street	Off-Street Supply
Street Parking	Parking Demand	free during Peak
Spaces	(weekday Mid)	Demand
12	4	

Based on this data, it is not anticipated that any issues will arise due to the elimination of 16 parking spaces on Weddell Drive. The available off-street supply will meet the onstreet demand.

Ahwanee Avenue

Parking is proposed to be eliminated on Ahwanee Avenue from Borregas Avenue to Alturas Avenue. There are a total of 23 on-street spaces all adjacent to the property of 874 Borregas Avenue, The Sands Studio Apartments. The peak demand for this section is 17 vehicles during the week4end morning. It is observed that the majority of those using these spaces are residents of The Sands Studio Apartments. Table 4 shows that there are 18 unused parking spaces in the off-street parking lot for the adjacent property during the peak use. However, these parking spaces are numbered and allotted to each unit so it is possible that some of the on street demand will not be able to be absorbed by the off-street spaces.

Table 4 - Ahwanee Avenue between Borregas Ave and Alturas Ave

Total # of On- Street Parking Spaces	Peak On-Street Parking Demand (weekend AM)	Off-Street Supply free during Peak Demand
23	17	18

An expanded parking study was conducted for the neighborhood south of Ahwanee Avenue in order to determine what effect the parking removal will have on the neighborhood as a whole. On and off street parking supply and demand were measured for the following streets:

- Alturas Avenue from Borregas Ave to Ahwanee Avenue,
- Borregas Avenue from Ahwanee Ave to Del Norte Ave,
- Hemlock Avenue from Borregas Ave to San Diego Ave.

The predominant land use for the neighborhood south of Ahwanee consists of single family homes. Off-street supply was counted by measuring the number of driveway spaces available. To be conservative, garage spaces were not used as part of the off-street supply.

Because of its proximity to Ahwanee Ave, Alturas Avenue and Borregas Avenue would be most likely to absorb the vehicles that were previously parked on Ahwanee. As table 5 demonstrates, the on-street parking on Alturas is already heavily utilized. On-street parking demand for Borregas Ave is also high, but free spaces are available. It is likely that the available supply on Borregas Avenue will absorb any shift in demand from removal of parking on Ahwanee Avenue.

The community has also expressed concerns regarding lack of available on-street parking on Alturas under current conditions. To remedy this situation, the project will propose to implement a residential parking permit program. It was also observed that there were some parking inefficiencies. For example, in a length of roadway that has the capacity to fit 3 cars, 2 cars would park is such a way that the 3rd car wouldn't be able to fit. This means that even though technically there are seven (7) free on-street parking spaces in the peak hour, effectively there are fewer available. One possible solution to this could be to mark the on street spaces.

Table 5

	Total # of On-	Peak On-Street	On-Street Supply	Off-Street
	Street Parking	Parking Demand	free during Peak	Supply free
	Spaces			during Peak
				(driveway
			,	only)
Alturas Ave	56	49	7	19
Borregas		19		
Ave	50		31	12
Hemlock		6		
Ave	23		17	17

It is anticipated that the 17 vehicles that currently park on Ahwanee Ave will be dispersed first where possible in the parking lot of 874 Borregas Ave. Assuming a permit parking program is implemented on Alturas, remaining vehicles will then park on Borregas Ave, and on Hemlock Ave. This study shows that there is currently adequate on-street parking supply to absorb that demand.

Appendix A

- On-Street Parking Survey
 Off-Street Parking Survey

On-Street Survey

					Demand	pu		
Location		Effective # of parking Spaces Distance (24)		Day 1 Weekday			Dav 2 Weekend	pu
			7-9am	1-3 pm	After 6 pm	7-9am	1-3 pm	After 6 pm
South of 101								
Ahwanee Ave.	126 Ahwanee to Borregas	8	9	9	8	6	6	<u></u>
	Borregas to Alturas	260	10	10	7-	10	10	7
North of 101								
Weddell Dr	101 Weddell to Borregas		3	2	0	4	m	ო
	Borregas to Weddell Ct	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	0	2		0
·	Weddell Ct to 233 Weddell	901	F 2	2	0	0	0	0
South of 237								
Persian Dr.	Plaza to Borregas		0	3	4	0		7
	Borregas to Morse	Ne Panking		-				
North of 237		The Plant of the Memorket				,		

Off-Street Survey

			in the second		Den	Demand		
			Õ	Day 1 weekday	day	۵	Day 2 weekend	kend
Location		Garage Ior Spaces DrWay Spaces	7-9am	1-3 pm After 6 pm	ter 6 pm	7-9am	1-3 pm	After 6 pm
South of 101								
Ahwanee Ave.	126 Ahwanee	886	46	36	64	73	58	54
	874 Borregas		36	24	31	46	36	
			000.000					
North of 101								
Weddell Dr	101 W. Weddell	78	49	46	09	62	67	69
	211 W. Weddell	26	17	4	4	2	. 2	2
	907/909 Weddell Ct	200	10	7-	တ	-	-	7-
	904 Weddell Ct		16	23	4	4	5	4
South of 237	-							
Persian Dr.	160 Persian Drive	8	9	38	55	O	27	40
	102 Persian Drive		က	<u></u> ∞	4,	00	_	
North of 237		Not Franklige to object the					-	-

Appendix B

Expanded Parking Study for Neighborhood South of Highway 101

- On-Street Parking Survey
 Off-Street Parking Survey

Expanded Study ON-STREET

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			Supply						Derr	Demand					
				Day	y 1 (Tuesday	· ·	٦	Day 2 (Wed)			Day 3 (Friday		ă	Day 4 (Saturday	ay)
Location	From	70	Total#of spaces	AM	Mid day	P.W	AM	Mid day	Æ	AM	Mid day	Md	AM	Mid day	W.
Ahwanee	Borregas	Borregas Atturas	\$1.50 m	10	10	7	80	7	15	8	9	13		\$	4
Borregas west side	Ańwanee	Ahwanee Del Norte	0EST 2000	10	4	4	5	7	8	10	8	8	7		7
Borregas east side	Del Norte	Del Norte Ahwanee		7	S.	8	6	4	11	7	3	10	6	11	6
Borregas Total			02.50		6 13. 1	4 P			2 To 19			2 4 8 8		8	6 Part 16
Alturas south side	Borregas	Borregas Ahwanee		19	19	22	22	18	25	18	15	. 23	19	18	23
Alturas north side	Ahwanee	Ahwanee Borregas		18	22	21	16	41	24	15	16	24	21	21	19
Xituras Total ⊊			995 57 10 150	40.4.3	18 1	S		E 15 28 2	E 29	233	150	WE 1884		96 CE 100	
Hemlock south side	Borregas end	puə		2		-	τ-		2	2	0	2		,	4
Hemlock north side	end	Borregas		-	ო	က	2	4	_	-	-	0		-	2
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Expanded Study OFF-STREET

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